Applicants: Richard Harris et al
Serial No. To be Assigned
Filed March 16, 1992
Atty. Docket CARPR 00222 CZ

8/302241 Sheet 1 of 9

~~#/852390~~
~~8/165533~~

Fig. 1

Applicants: Richard Harris WJL et al
S.N. To be Assigned
Filed March 16, 1992
Atty DKt CARPR 002202

Sheet 2 of 7

07/852390
8/302241 8/165533

Fig. 2a

```
        1        10        20        30        40        50        60        70
a:     --CCGAGCCGAGAATGGGAGTAGAGCCGACTGCTTGATTCCCACACCAATCTCCTCGCCGCTCTCACTTCG
         ----  >>>>>>>>>>>>>>>>>>>>      >>>>        <<<<   <<<  <<<<< <<<

          80        90       100       110       120       130       140
a:   CCTCGTTCTCGTGGCTCGTGGCCCTGTCCACCCCGTCCATCATCCCGCCGGCCACCGCTCAGAGCACCTTCCACC
     << <<<<<<<<<>>>>  >>>>>>                               <<<<<< << <<

      150       160       170       180       190       200       210       220
a:   ATGGCCACCTCAGCAAGTTCCCACTTGAACAAAAACATCAAGCAAATGTACTTGTGCCTGCCCCAGGGTGAGAAA
b:    M  A  T  S  A  S  S  H  L  N  K  N  I  K  Q  M  Y  L  C  L  P  Q  G  E  K
c:     AcA  T  S  A  S  S  H  L  B  K  g  I  K  Z  v  Y  m  a  L  P  Q  G  d  K
d:     CB X-D                                             CB XI-B
        1           5              10              15              20

            230       240       250       260       270       280       290
a:   GTCCAAGCCATGTATATCTGGGTTGATGGTACTGGAGAAGGACTGCGCTGCAAAACCCGCACCCTGGACTGTGAG
b:    V  Q  A  M  Y  I  W  V  D  G  T  G  E  G  L  R  C  K  T  R  T  L  D  C  E
c:    V  Q  A  M  Y  I  W  i  D  G  T  G  E  G  L  R  C  K  T  R  T  L  X  s  X
d:                 CB VII
     25             30              35              40              45

      300       310       320       330       340       350       360       370
a:   CCCAAGTGTGTAGAAGAGTTACCTGAGTGGAATTTTGATGGCTCTAGTACCTTTCAGTCTGAGGGCTCCAACAGT
b:    P  K  C  V  E  E  L  P  E  W  N  F  D  G  S  S  T  F  Q  S  E  G  S  N  S
c:    P  K  k  p  a  s  t  n  l  z  r
     50             55              60              65              70
```

Fig. 2b

```
       380       390       400       410       420       430       440
a: GACATGTATCTCAGCCCTGTTGCCATGTTTCGGGACCCCTTCCGCAGAGATCCCAACAAGCTGGTGTTCTGTGAA
b:  D  M  Y  L  S  P  V  A  M  F  R  D  P  P  R  R  D  P  N  K  L  V  P  C  E
c:     M  Y  L  v  P  a  A  M  F  R  D  P  P  k  R  D  P  N  X  L  V  P  C  E
d:       CB XII-C            CB VI-C
   75             80             85             90             95

   450       460       470       480       490       500       510       520
a: GTTTTCAAGTACAACCGGAAGCCTGCAGAGACCAATTTAAGGCACTCGTGTAAACGGATAATGGACATGGTGAGC
b:  V  F  K  Y  N  R  K  P  A  E  T  N  L  R  H  S  C  K  R  I  M  D  M  V  S
c:  V  F  X  Y  N  k  r  P  A  E  T  N  L  X  X  t  C           M  B  M  V  S
d:                                                             CB XIV CB XII-C
   100            105            110            115            120

       530       540       550       560       570       580       590
a: AACCAGCACCCCTGGTTTGGAATGGAACAGGAGTATACTCTGATGGGAACAGATGGGCACCCTTTTGGTTGGCCT
b:  N  Q  H  P  W  F  G  M  E  Q  E  Y  T  L  M  G  T  D  G  H  P  F  G  W  P
c:  N  Q  X  P  X  F  G  M  E  Q  E  Y  T  L  M  G  T  r  G  r  P  F  G  X  P
d:                       CB XII-A            CB VI-D
   125            130            135            140            145

   600       610       620       630       640       650       660       670
a: TCCAATGGCTTTCCTGGCCCCAAGGTCCGTATTACTGTGGTGTGGGCGCAGACAAAGCCTATGGCAGGGATATC
b:  S  N  G  F  P  G  P  Q  G  P  Y  Y  C  G  V  G  A  D  K  A  Y  G  R  D  I
c:  S  N  C  F  X  G  P  Q  a
   150            155            160            165            170
```

Ap cants Richard Harris WJI N et al
SN To be Assigned
Filed March 16, 1992
Atty Dkt CARPR 002202

Sheet 3 of 9

8/302241 ~~07/852390~~
~~8/165533~~

Applicants: Richard Harris [illegible] et al
SN: To be Assigned
Filed March 16, 1992
Atty Dkt CARPR 0032 C2
Sheet 4 of 9
8/302241 ~~07/852390~~ 8/165533

Fig. 2c

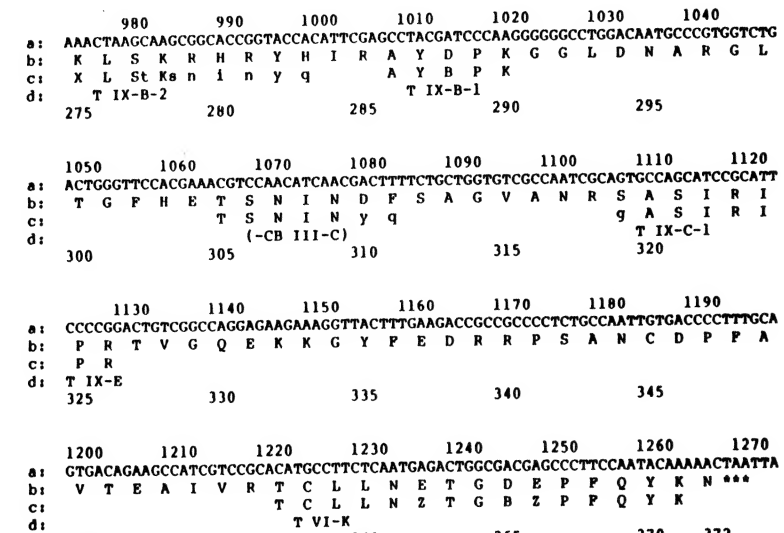
```
          680       690       700       710       720       730       740
a: GTGGAGGCTCACTACCGCGCCTGCTTGTATGCTGGGGTCAAGATTACAGGAACAAATGCTGAGGTCATGCCTGCC
b:  V  E  A  H  Y  R  A  C  L  Y  A  G  V  K  I  T  G  T  N  A  E  V  M  P  A
c:                    A  C  L  Y  A  G  i  K     g  G  T  N  X  X  V  M  P  A
d:                   T VII-G                     - CB VI-D           CB XI-H
   175            180            185            190            195

   750       760       770       780       790       800       810       820
a: CAGTGGAATTCCAAATAGGACCCTGTGAAGGAATCCGCATGGAGATCATCTCTGGGTGGCCCGTTTCATCTTG
b:  Q  W  E  F  Q  I  G  P  C  E  G  I  R  M  G  D  H  L  W  V  A  R  F  I  L
c:  Q  W  E  F  Q  I  G  P  C  E  G  I  d  M
   200            205            210            215            220

          830       840       850       860       870       880       890
a: CATCGAGTATGTGAAGACTTTGGGGTAATAGCAACCTTTGACCCCAAGCCCATTCCTGGGAACTGGAATGGTGCA
b:  H  R  V  C  E  D  F  G  V  I  A  T  F  D  P  K  P  I  P  G  N  W  N  G  A
   225            230            235            240            245

   900       910       920       930       940       950       960       970
a: GGCTGCCATACCAACTTTAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGCACATCGAGGAGGCCATCGAG
b:  G  C  H  T  N  F  S  T  K  A  M  R  E  E  N  G  L  K  H  I  E  E  A  I  E
c:                                M  X  E  E  N  G  L  K  y  I  E  E  A  I  E
d:                                  CB III-C
   250            255            260            265            270
```

Fig. 2d


980 990 1000 1010 1020 1030 1040
a: AAACTAAGCAAGCGGCACCGGTACCACATTCGAGCCTACGATCCCAAGGGGGGCCTGGACAATGCCCGTGGTCTG
b: K L S K R H R Y H I R A Y D P K G G L D N A R G L
c: X L St Ks n i n y q A Y B P K
d: T IX-B-2 T IX-B-1
275 280 285 290 295
1050 1060 1070 1080 1090 1100 1110 1120
a: ACTGGGTTCCACGAAACGTCCAACATCAACGACTTTTCTGCTGGTGTCGCCAATCGCAGTGCCAGCATCCGCATT
b: T G F H E T S N I N D F S A G V A N R S A S I R I
c: T S N I N y q g A S I R I
d: (-CB III-C) T IX-C-1
300 305 310 315 320
1130 1140 1150 1160 1170 1180 1190
a: CCCCGGACTGTCGGCCAGGAGAAGAAAGGTTACTTTGAAGACCGCCGCCCCCTCTGCCAATTGTGACCCCTTTGCA
b: P R T V G Q E K K G Y F E D R R P S A N C D P F A
c: P R
d: T IX-E
325 330 335 340 345
1200 1210 1220 1230 1240 1250 1260 1270
a: GTGACAGAAGCCATCGTCCGCACATGCCTTCTCAATGAGACTGGCGACGAGCCCTTCCAATACAAAAACTAATTA
b: V T E A I V R T C L L N E T G D E P F Q Y K N ***
c: T C L L N Z T G B Z P F Q Y K
d: T VI-K
350 355 360 365 370 372

Applicants: Richard Harris Wilson et al
S.N.: To be Assigned
Filed: March 16, 1992
Atty Dkt: CARPR0022 C2

8/302241 Sheet 6 of 9

~~07/852390~~
~~8/165533~~

```
          1280      1290      1300      1310      1320      1330      1340
a:    GACTTTGAGTGATCTTGAGCCTTTCCTAGTTCATCCCACCCCGCCCCAGCTGTCTCATTGTAACTCAAAGGATGG

      1350      1360      1370      1380      1390      1400      1410      1420
a:    AATATCAAGGTCTTTTTATTCCTCGTGCCCAGTTAATCTTGCTTTTATTGGTCAGAATAGAGGAGTCAAGTTCTT
e:    AATATCAAGGTCTTTTTATTCCTCGTGCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

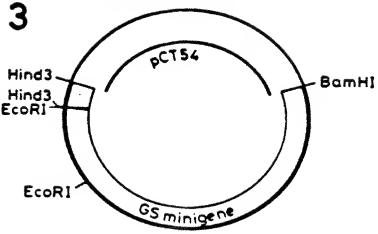
Fig. 2e

Applicant - Richard Harris WILSON - et al.
S.N. To be Assigned
Filed March 16, 1992
Atty Dkt CAMPR 0022 02

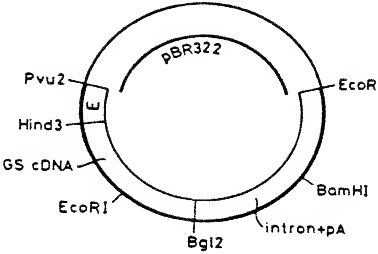
07/852390
8/302248

Fig. 3

a) pSVLGS.1



b) pSV2.GS



c) pZIPGS

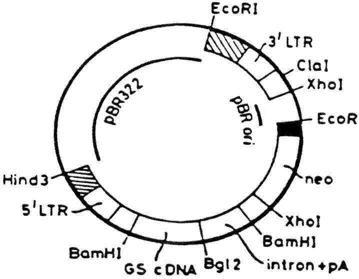


FIG. 1

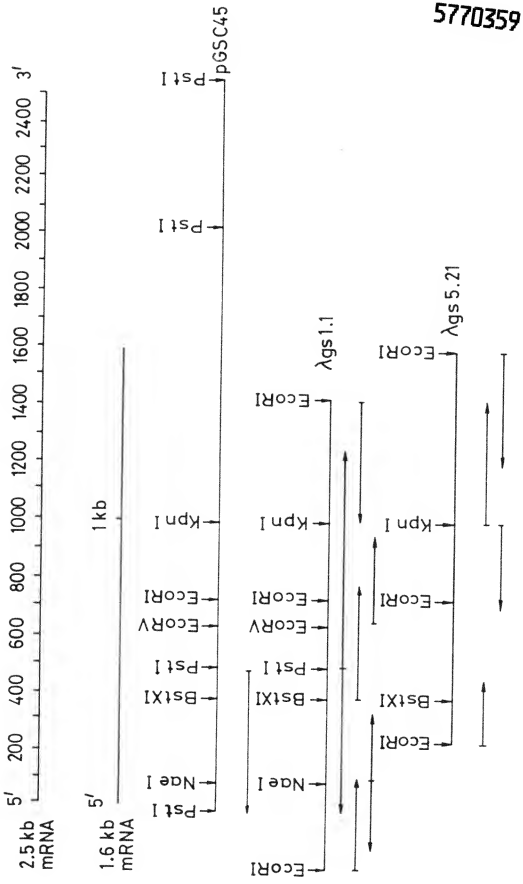


FIG. 2a

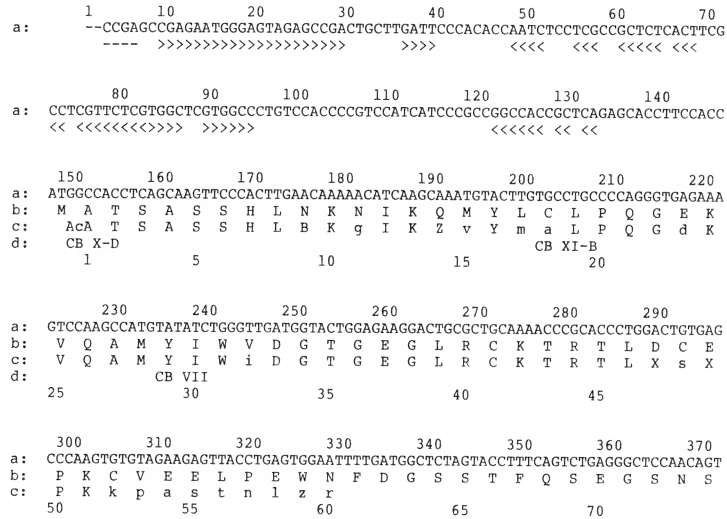


FIG. 2b

```
          380        390        400        410        420        430        440
a: GACATGTATCTCAGCCCTGTTGCCATGTTTCGGGACCCCTTCCGCAGAGATCCCAACAAGCTGGTGTTCTGTGAA
b:  D  M  Y  L  S  P  V  A  M  F  R  D  P  F  R  R  D  P  N  K  L  V  F  C  E
c:     M  Y  L  v  P  a  A  M  F  R  D  P  F  k  R  D  P  N  X  L  V  F  C  E
d:        CB XII-C                 CB VI-C
    75             80             85             90             95

     450        460        470        480        490        500        510        520
a: GTTTTCAAGTACAACCGGAAGCCTGCAGAGACCAATTTAAGGCACTCGTGTAAACGGATAATGGACATGGTGAGC
b:  V  F  K  Y  N  R  K  P  A  E  T  N  L  R  H  S  C  K  R  I  M  D  M  V  S
c:  V  F  X  Y  N  k  r  P  A  E  T  N  L  X  X  t  C              M  B  M  V  S
d:                                                                CB XIV CB XII-C
    100            105            110            115            120

          530        540        550        560        570        580        590
a: AACCAGCACCCCTGGTTTGGAATGGAACAGGAGTATACTCTGATGGGAACAGATGGGCACCCTTTTGGTTGGCCT
b:  N  Q  H  P  W  F  G  M  E  Q  E  Y  T  L  M  G  T  D  G  H  P  F  G  W  P
c:  N  Q  X  P  X  F  G  M  E  Q  E  Y  T  L  M  G  T  r  G  r  P  F  G  X  P
d:                         CB XII-A                 CB VI-D
    125            130            135            140            145

     600        610        620        630        640        650        660        670
a: TCCAATGGCTTTCCTGGGCCCCAAGGTCCGTATTACTGTGGTGTGGGCGCAGACAAAGCCTATGGCAGGGATATC
b:  S  N  G  F  P  G  P  Q  G  P  Y  Y  C  G  V  G  A  D  K  A  Y  G  R  D  I
c:  S  N  C  F  X  G  P  Q  a
    150            155            160            165            170
```

08/302,241

FIG. 2c

```
         680       690       700       710       720       730       740
a:  GTGGAGGCTCACTACCGCGCCTGCTTGTATGCTGGGGTCAAGATTACAGGAACAAATGCTGAGGTCATGCCTGCC
b:   V  E  A  H  Y  R  A  C  L  Y  A  G  V  K  I  T  G  T  N  A  E  V  M  P  A
c:                     A  C  L  Y  A  G  i  K     g  G  T  N  X  X  V  M  P  A
d:                    T VII-G                      - CB VI-D                CB XI-H
    175            180            185            190            195

      750       760       770       780       790       800       810       820
a:  CAGTGGGAATTCCAAATAGGACCCTGTGAAGGAATCCGCATGGGAGATCATCTCTGGGTGGCCCGTTTCATCTTG
b:   Q  W  E  F  Q  I  G  P  C  E  G  I  R  M  G  D  H  L  W  V  A  R  F  I  L
c:   Q  W  E  F  Q  I  G  P  C  E  G  I  d  M
    200            205            210            215            220

         830       840       850       860       870       880       890
a:  CATCGAGTATGTGAAGACTTTGGGGTAATAGCAACCTTTGACCCCAAGCCCATTCCTGGGAACTGGAATGGTGCA
b:   H  R  V  C  E  D  F  G  V  I  A  T  F  D  P  K  P  I  P  G  N  W  N  G  A
    225            230            235            240            245

      900       910       920       930       940       950       960       970
a:  GGCTGCCATACCAACTTTAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGCACATCGAGGAGGCCATCGAG
b:   G  C  H  T  N  F  S  T  K  A  M  R  E  E  N  G  L  K  H  I  E  E  A  I  E
c:                                M  X  E  E  N  G  L  K  y  I  E  E  A  I  E
d:                                  CB III-C
    250            255            260            265            270
```

FIG. 2d

```
          980        990       1000       1010       1020       1030       1040
a:  AAACTAAGCAAGCGGCACCGGTACCACATTCGAGCCTACGATCCCAAGGGGGGCCTGGACAATGCCCGTGGTCTG
b:   K  L  S  K  R  H  R  Y  H  I  R  A  Y  D  P  K  G  G  L  D  N  A  R  G  L
c:   X  L  St Ks n  i  n  y  q        A  Y  B  P  K
d:      T IX-B-2                        T IX-B-1
     275             280             285             290             295

     1050       1060       1070       1080       1090       1100       1110       1120
a:  ACTGGGTTCCACGAAACGTCCAACATCAACGACTTTTCTGCTGGTGTCGCCAATCGCAGTGCCAGCATCCGCATT
b:   T  G  F  H  E  T  S  N  I  N  D  F  S  A  G  V  A  N  R  S  A  S  I  R  I
c:                  T  S  N  I  N  y  q                          g  A  S  I  R  I
d:                     (-CB III-C)                                T IX-C-1
     300             305             310             315             320

          1130       1140       1150       1160       1170       1180       1190
a:  CCCCGGACTGTCGGCCAGGAGAAGAAAGGTTACTTTGAAGACCGCCGCCCCCTCTGCCAATTGTGACCCCTTTGCA
b:   P  R  T  V  G  Q  E  K  K  G  Y  F  E  D  R  R  P  S  A  N  C  D  P  F  A
c:   P  R
d:  T IX-E
     325             330             335             340             345

     1200       1210       1220       1230       1240       1250       1260       1270
a:  GTGACAGAAGCCATCGTCCGCACATGCCTTCTCAATGAGACTGGCGACGAGCCCTTCCAATACAAAAACTAATTA
b:   V  T  E  A  I  V  R  T  C  L  L  N  E  T  G  D  E  P  F  Q  Y  K  N ***
c:                     T  C  L  L  N  Z  T  G  B  Z  P  F  Q  Y  K
d:                        T VI-K
     350             355             360             365             370    372
```

```
        1280       1290       1300       1310       1320       1330       1340
a:  GACTTTGAGTGATCTTGAGCCTTTCCTAGTTCATCCCACCCCGCCCCAGCTGTCTCATTGTAACTCAAAGGATGG

    1350       1360       1370       1380       1390       1400       1410       1420
a:  AATATCAAGGTCTTTTTATTCCTCGTGCCCAGTTAATCTTGCTTTTATTGGTCAGAATAGAGGAGTCAAGTTCTT
e:  AATATCAAGGTCTTTTTATTCCTCGTGCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIG.2e

08/902,241

FIG. 3a pSVLGS.1

FIG. 3b pSV2.GS

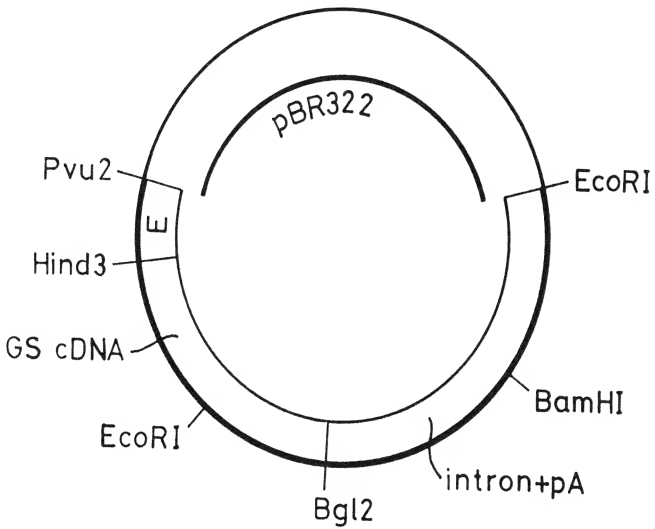
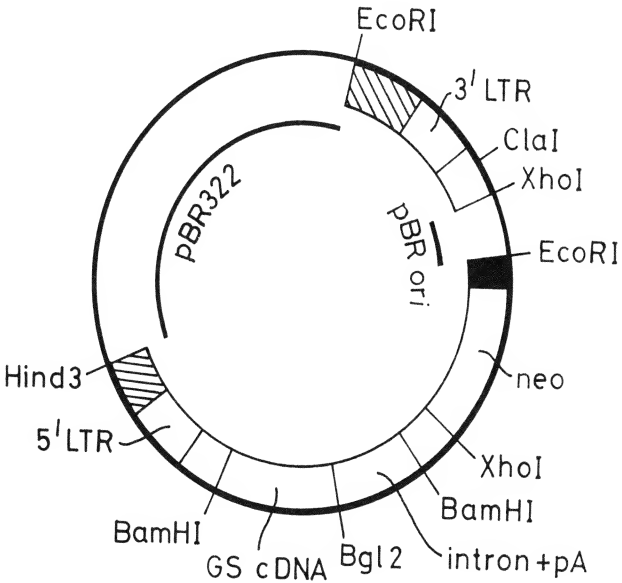


FIG. 3c pZIPGS



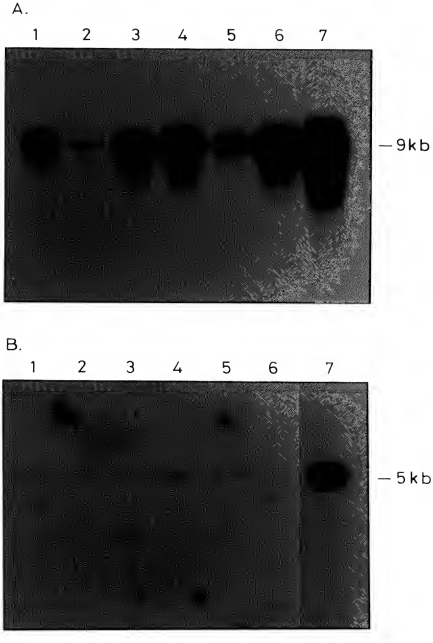
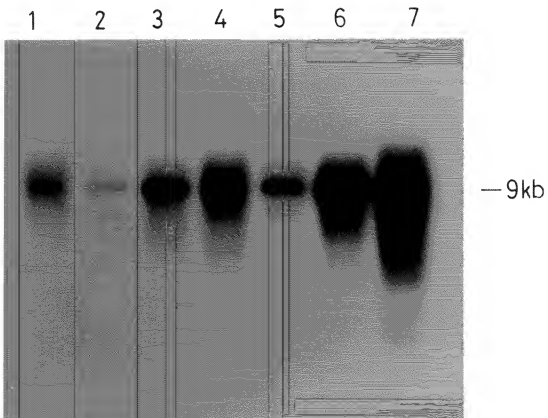


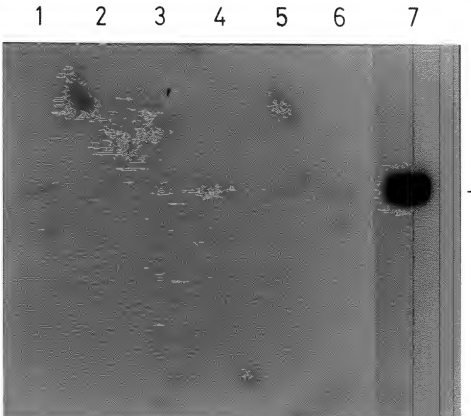
Fig. 4

FIG. 4A



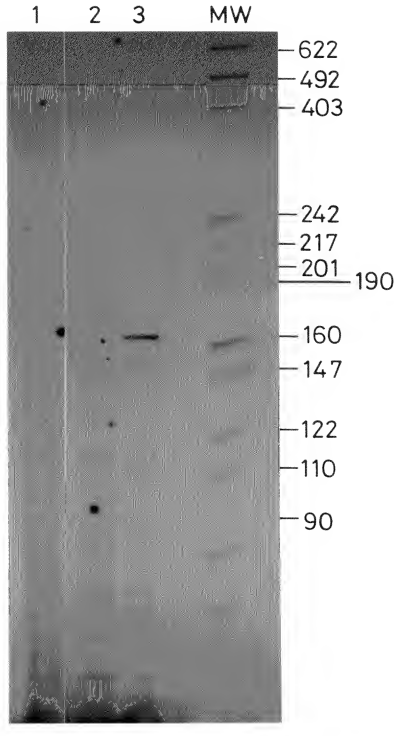
08/302,711

FIG. 4B



08/302,241

FIG. 5



8/302,214 8/165533

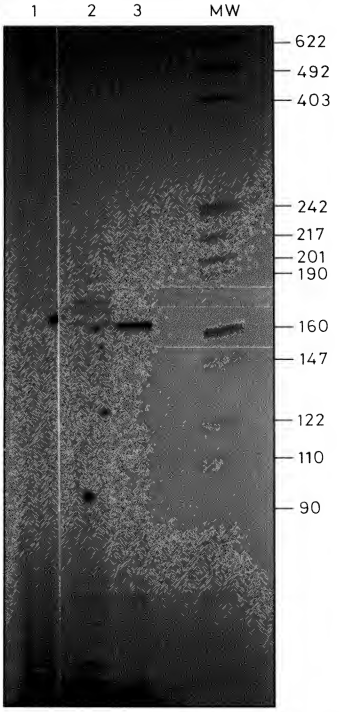


Fig. 5